

What is claimed is:

1. A method of starting a brushless DC motor including an armature coil in a stator and field magnets in a rotor, comprising:

supplying a starting current for said
5 armature coil while said rotor is in a stationary state;

measuring an induced voltage induced in
said armature coil by rotation of said rotor
wherein said rotation is caused by said starting
10 current; and

supplying a drive current for said armature
coil in response to said induced voltage.

2. The method according to claim 1, wherein
said supplying said drive current includes:

determining a position of said rotor based
on said induced voltage, and
5 deciding said drive current based on said
position.

3. The method according to claim 1, wherein
said measuring is executed after said supplying
said starting current.

4. The method according to claim 1, wherein
said measuring is executed during said supplying

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said starting current.

5. The method according to claim 1, wherein said supplying said starting current includes:

supplying another starting current for said armature coil, and

5 supplying said starting current when said rotor is not rotated by said another starting current, and

10 said starting current and said another starting current have different waveforms each other.

6. The method according to claim 1, further comprising:

detecting a direction of said rotation; and
stopping said rotor when said direction is
5 not a desirable direction.

7. The method according to claim 1, wherein said supplying said drive current includes:

continuously supplying a first drive current for said armature coil till a speed of
5 said rotation becomes a predetermined speed, said first drive current being determined based on said induced voltage, and

supplying a second drive current for said

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armature coil after said continuously supplying
10 said first drive current, a current flow duration
of said second drive current being controlled
based on said speed.

8. The method according to claim 1, wherein
said supplying said drive current includes:

supplying a first drive current for said
armature coil such that said rotor is rotated
5 with a maximum torque, till a speed of said
rotation becomes a predetermined speed; and

supplying a second drive current for said
armature coil after said supplying said first
drive current, a current flow duration of said
10 second drive current being controlled based on
said speed.

9. A brushless DC motor comprising:

an armature including an armature coil;
a rotor including a plurality of field
magnets;

5 a power supply unit; and

a measuring unit, wherein said power supply
unit supplies a starting current for said
armature coil while said rotor is in a stationary
state, and

10 said measuring unit measures an induced

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